CW#24H: || lines & / Quiz Review

Honors Geometry

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP: \_\_\_\_\_\_\_

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| Sometimes what you think you see determines how you see it…  1. Which cross bar in the figure below is perpendicular to the vertical bar?    2. Which cross bar in the figure below is perpendicular to the vertical bar?    3. If you didn’t give the same answer to both questions, why not? Aren’t they the same figure?  4. Is it possible that both cross bars are perpendicular to the vertical line? Explain.  5. If they are, does it follow that they are parallel? Explain. | In the optical illusion below, two lines cross a V-shaped pattern.    In the figure below, all but one of the Vs have been removed.    6. If , can you conclude that x || y?  The figure below shows a sheet of paper folded into an accordion shape. The pleated edge outlined in color lies in a vertical plane.    7. What angle pair relationship  with respect to lines AB, BC, and CD?  8. If , why is AB || CD?  9. If  and , why is CD || EF? |

**Tell whether the statement is *always, sometimes,* or *never* true*. Explain* yourreasoning.**

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| 10. If *C* is in the interior of ∠*ADB,* then ∠*ADC* ≅ ∠*CDB.* Draw a picture. | 11. When a ray bisects a straight angle, two congruent acute angles are formed. Draw a picture. |

**Use the following information to answer #12 – 18.**

*D* is in the interior of∠*BAE*. *m*∠*BAC =* 125°

*E* is in the interior of∠*DAF*. *m*∠*EAC =* 95°

*F* is in the interior of∠*EAC*. *m*∠*BAD = m*∠*EAF = m*∠*FAC*

12. Draw a sketch to the right that uses all of the given information.

13. Find *m*∠*FAC*.

14. Find *m*∠*BAD*.

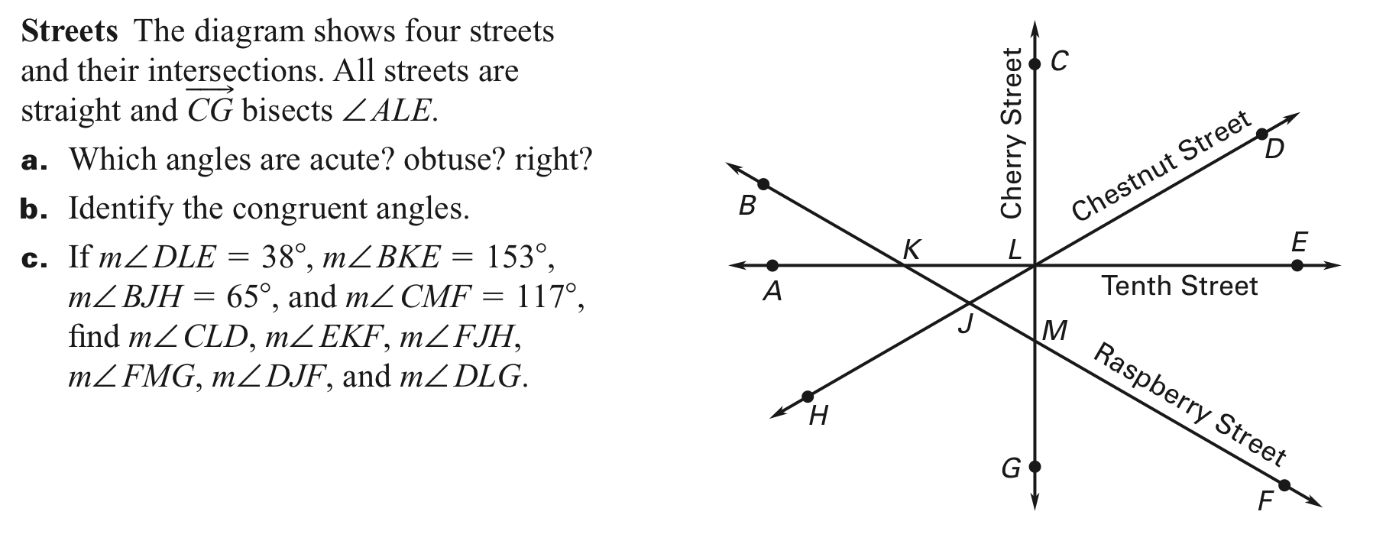
15. Find *m*∠*FAB*.

16. Find *m*∠*DAE*.

17. Find *m*∠*FAD*.

18. Find *m*∠*BAE*.

19.



20. Find the angle measure. Then state what angle pair relationship you used.

